

(12) United States Patent

Connelly

(10) **Patent No.:**

US 8,839,298 B2

(45) **Date of Patent:**

*Sep. 16, 2014

(54) METHOD AND APPARATUS TO DETERMINE BROADCAST CONTENT AND SCHEDULING IN A BROADCAST SYSTEM

(75) Inventor: **Jay H. Connelly**, Lakeway, TX (US)

Assignee: Intel Corporation, Santa Clara, CA

(US)

Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 85 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 13/352,816

(22)Filed: Jan. 18, 2012

Prior Publication Data (65)

> US 2012/0117606 A1 May 10, 2012

Related U.S. Application Data

- (63) Continuation of application No. 12/975,027, filed on Dec. 21, 2010, now Pat. No. 8,108,542, and a continuation of application No. 11/864,485, filed on Sep. 28, 2007, now Pat. No. 7,962,573, which is a continuation of application No. 09/532,034, filed on Mar. 21, 2000, now Pat. No. 7,284,064.
- (51) Int. Cl. G06F 3/00 (2006.01)
- U.S. Cl.
- Field of Classification Search CPC H04N 21/45; H04N 21/4532; H04N 21/44213; H04N 60/33; G06F 17/30

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

4,115,855 A 9/1978 Chiba 4,546,382 A 10/1985 McKenna et al.

(Continued)

FOREIGN PATENT DOCUMENTS

11/1982 EP 0064168 EP0902569 3/1999 (Continued)

OTHER PUBLICATIONS

Second Office Action mailed Sep. 6, 2012 for Chinese Patent Application No. 10075100.7.

(Continued)

Primary Examiner — Douglas Blair (74) Attorney, Agent, or Firm — Buckley, Maschoff & Talwalkar LLC

(57)ABSTRACT

The disclosed broadcast system includes a server that broadcasts meta-data to a plurality of clients. The meta-data describes a plurality of data files that are to be broadcast or potentially broadcast later by the server. Each client receives the broadcasted meta-data from the server and updates and maintains a local meta-data table and a content rating table. Based on the meta-data, previous access habits of the user and optional user classifications, the client system selectively receives and/or stores the data files that are later broadcast by the server. In one embodiment, the client systems transmit back to the server ratings of each one of the data files described by the meta-data based on the user's previously accessed data files and optional user classifications. The server then determines the data files to be broadcast and the broadcast schedule based on the ratings received from the clients.

13 Claims, 9 Drawing Sheets

